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 **Title: JP61240629A2: MANUFACTURE OF SUBSTRATE**

 **Derwent Title:** Substrate for semiconductor mfr. - forming diamond thin layer or 1st substrate, junction layer on it bonding 2nd eliminating 1st substrate
 NoAbstract Dwg 0/1 [\[Derwent Record\]](#)

 **Country:** JP Japan
 **Kind:** A (See also: [JP6065210B4](#))


 **Inventor:** SHOHATA NOBUAKI;
 FUJII KAZUTAKA;


 **Assignee:** NEC CORP
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 **Published / Filed:** 1986-10-25 / 1985-04-17

 **Application Number:** JP1985000081559


 **IPC Code:** [H01L 21/205](#); [H01L 21/304](#);

 **Priority Number:** 1985-04-17 JP1985000081559

 **Abstract:** PURPOSE: To obtain a substrate equipped with a diamond shape thin film having superior surface flatness, by jointing the second substrate, through a jointed layer, on the diamond shape thin film formed on the first substrate and then removing the first substrate.
 CONSTITUTION: A silicon substrate 2 of 0.3mm in thickness is used as the first substrate 1 and a diamond-shape thin film 2 is deposited on it by exciting a mixing gas of CH4 and H2 with high frequency non-polar discharge with frequency of 13.56MHz. A jointed layer 3 is a material evaporation deposited and metallized with Ti, Pt, and Au. A silicon substrate of 0.3mm in thickness, which has been similarly metallized, is used as the second substrate 4 and jointed with an Au layer being fuse-bonded. The first substrate can be removed by grinding, however, the possibly remaining part of silicon, which can not be removed by grinding, is removed by well-known method.

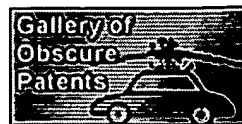
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 **Other Abstract Info:** DERABS C87-009700 DERC87-009700





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